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मानक

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Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

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Jawaharlal Nehru

“Step Out From the Old to the New”

IS 11852-5 (2001): Automotive Vehicles - brakes and braking systems, Part 5: Compressed air and air assisted brakes - Pressure test connections [TED 4: Automotive Braking Systems]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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भारतीय मानक

स्वचल वाहन — ब्रेक और ब्रेकिंग तंत्र

भाग 5 संपीडित वायु और वायु सहायता ब्रेक — दाब परीक्षण संयोजन

(पहला पुनरीक्षण)

Indian Standard

**AUTOMOTIVE VEHICLES — BRAKES AND
BRAKING SYSTEMS**

**PART 5 COMPRESSED AIR AND AIR ASSISTED BRAKES —
PRESSURE TEST CONNECTIONS**

(First Revision)

ICS 43.040.40

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Automotive Braking Systems Sectional Committee had been approved by Transport Engineering Division Council.

This standard on brakes and braking systems which was earlier issued in eight parts, has now been revised and issued in nine parts which are as under:

- Part 1 Terminology;
- Part 2 General functions and features;
- Part 3 Performance requirements and evaluation;
- Part 4 Compressed air and air assisted brakes — Special requirements;
- Part 5 Compressed air and air assisted brakes — Pressure test connections;
- Part 6 Vacuum braking systems — Special requirements;
- Part 7 Inertia dynamometer test method for brake linings;
- Part 8 Test procedures; and
- Part 9 Requirements for vehicles equipped with anti-lock braking devices.

IS 11852 (Part 7) : 1995 'Automotive vehicles — Recommendations for brakes and braking systems: Part 7 Model test report' has been withdrawn in this revision and has been replaced with a part covering 'Inertia dynamometer test methods for brake linings'. Part 9 covering the requirements for vehicles equipped with anti-lock braking devices has been added.

This standard forms an important adjunct to IS 11852 (Part 4) : 2001 and is largely based on ISO 3583-1984 'Road vehicles — pressure test connection for compressed air pneumatic braking equipment', published by the International Organization for Standardization (ISO).

The composition of the committee responsible for formulating this standard is as given in Annex A.

Indian Standard

AUTOMOTIVE VEHICLES — BRAKES AND BRAKING SYSTEMS

PART 5 COMPRESSED AIR AND AIR ASSISTED BRAKES — PRESSURE TEST CONNECTIONS

(First Revision)

1 SCOPE

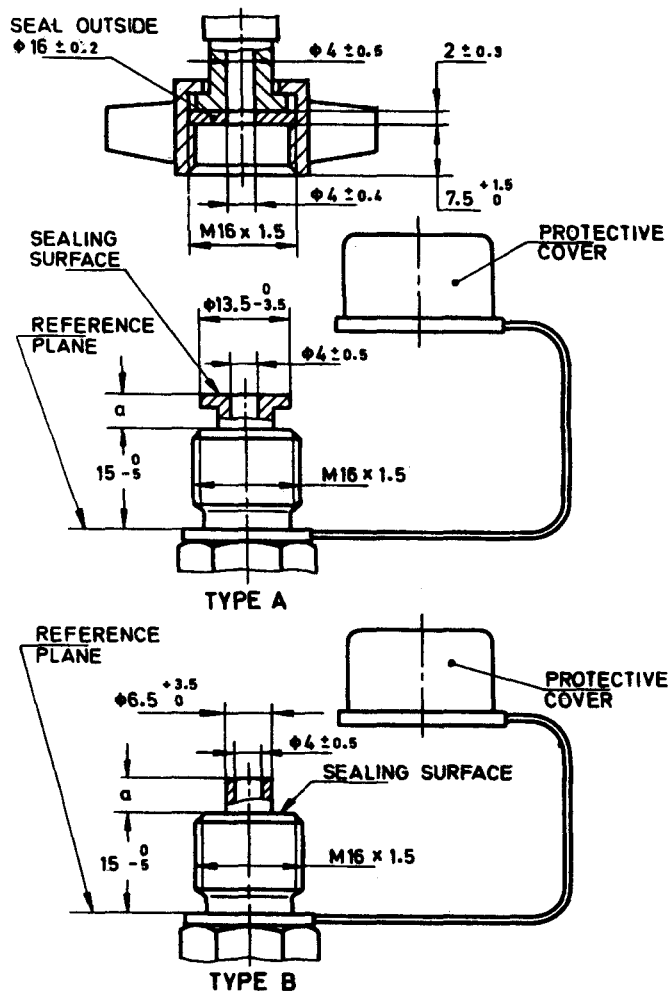
This Standard specifies the general requirements and the main dimensional characteristics of a type of connection used for checking response times and pressure levels for compressed air braking equipment fitted on road vehicles.

1.1 This standard applies to compressed air pneumatic braking systems only.

2 DIMENSIONAL CHARACTERISTICS OF THE CONNECTION

2.1 Main dimensional characteristics of the connection shall be either as per Type A or Type B shown in Fig. 1 and Table 1. The two types of valves, Type A and Type B are interchangeable.

2.2 Dimensions not specified in Fig. 1 and Table 1 may be chosen according to application.



All dimensions in millimetres.

FIG. 1 DIMENSIONS FOR PRESSURE TEST CONNECTION

3 GENERAL REQUIREMENTS

3.1 Opening force with 1 MPa internal pressure shall be as given in Table 1.

3.2 Seals and covers shall be such as to withstand the effects of petroleum products.

3.3 The components in the connection shall have smooth finish and shall be free from burrs.

Table 1 Values of 'a', Opening Travel and Opening Force
(Clauses 2.1, 2.2 and 3.1)

Type	Value of 'a' Valve Closed mm	Opening Travel mm	Opening Force with 1 MPa Internal Pressure N
A	5 Max	2 Min	20 to 200
B	2 Min 5 Max	$\geq a$	20 to 100

ANNEX A**(Foreword)****COMMITTEE COMPOSITION****Automotive Braking System Sectional Committee, TED 4***Chairman*

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Amend No.	Date of Issue	Text Affected

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